

EXHIBIT E

EXHIBIT C

Prior Art Anticipating or Rendering Obvious the Claims of the Asserted Patents

No.	Reference Name/Inventor/ Author	Reference/System Description	Date	Ref. Type	Basis of Invalidity
1.	Kenyon	U.S. Patent No. 7,194,752 to Kenyon <i>et al.</i> , “Method and Apparatus for Automatically Recognizing Input Audio and/or Video Streams”	Filed: October 19, 1999; Issued: March 20, 2007	Patent	Anticipates
2.	Ort	U.S. Patent No. 5,799,098, Ort <i>et al.</i> , “Fingerprint Identification System”	Issued: August 25, 1998	Patent	Anticipates
3.	Miyatake	U.S. Patent No. 5,805,746, Miyatake <i>et al.</i> , “Video Retrieval Method and Apparatus”	Issued: September 8, 1998	Patent	Anticipates
4.	Jain ‘205	U.S. Patent No. 5,913,205, Jain <i>et al.</i> , “Query Optimization for Visual Information Retrieval System”	Issued: June 15, 1999	Patent	Anticipates
5.	Blum I	U.S. Patent No. 5,918,223, Blum <i>et al.</i> , “Method and Article of Manufacture for Content-Based analysis, Storage, Retrieval, and Segmentation of Audio Information”	Issued: June 29, 1999	Patent	Anticipates
6.	Wang	U.S. Patent No. 6,035,055, Wang <i>et al.</i> , “Digital Image Management System in a Distributed Data Access Network System”	Issued: March 7, 2000	Patent	Anticipates
7.	Califano	U.S. Patent No. 6,041,133, Califano <i>et al.</i> , “Method and Apparatus for Fingerprint Matching Using Transformation Parameter Clustering Based on Local Feature Correspondence”	Issued: March 21, 2000	Patent	Anticipates
8.	Broder I	U.S. Patent No. 6,119,124, Broder <i>et al.</i> , “Method for Clustering Closely Resembling Data Objects”	Filed: March 26, 1998; Issued: September 12, 2000	Patent	Anticipates
9.	Apel	U.S. Patent No. 7,284,255 to Apel <i>et al.</i> , “Audience Survey System, and System and Methods for Compressing and Correlating Audio	Filed: November	Patent	Anticipates

No.	Reference Name/Inventor/ Author	Reference/System Description	Date	Ref. Type	Basis of Invalidity
		Signals”	16, 1999; Provisional filed: June 18, 1999; Issued: October 16, 2007		
10.	Broder II	U.S. Patent No. 6,269,362, Broder <i>et al.</i> , “System and Method for Monitoring Web Pages by Comparing Generated Abstracts”	December 19, 1997; Issued: July 31, 2001	Patent	Anticipates
11.	Brechner	U.S. Patent No. 6,477,269, Brechner, “Method and System for searching for Images Based on Color and Shape of a Selected Image”	Filed: March 20, 1999; Issued: November 5, 2002	Patent	Anticipates
12.	Yan	U.S. Patent No. 6,502,105, Yan <i>et al.</i> , “Region-Based Image Archiving and Retrieving System”	Filed: January 15, 1999; Issued: December 31, 2002	Patent	Anticipates
13.	Wang	U.S. Patent No. 6,990,453 to Wang et al, “System and Methods for Recognizing Sound and Music Signals in High Noise and Distortion”	Provisional filed: July 31, 2000; Issued: January 24, 2006	Patent	Anticipates
14.	Yu	U.S. Patent No. 7,042,525, Yu, “Video Indexing and Image Retrieval System”	Filed: July 6, 2000; Issued: May 9, 2006	Patent	Anticipates
15.	DeTreville	U.S. Patent No. 6,868,405, DeTreville, “Copy Detection for Digitally-Formatted Works”	Filed November 29, 1999;	Patent	Anticipates

No.	Reference Name/Inventor/ Author	Reference/System Description	Date	Ref. Type	Basis of Invalidity
			Issued March 15, 2005.		
16.	DeBan	U.S. Patent No. 5,386,103, DeBan <i>et al.</i> , “Identification and Verification System”	Issued: January 31, 1995	Patent	Anticipates
17.	Carson	Carson <i>et al.</i> “Blobworld: A System for Region-Based Image Indexing and Retrieval,” Dionysius P. Huijsmans, Arnold W.M. Smeulders (Eds.): VISUAL '99, LNCS 1614, PP. 509-517	Published: 1999	Publication	Anticipates
18.	Niblack	Niblack <i>et al.</i> “The QBIC Project: Querying Images by Content Using Color, Texture, and Shape,” <i>SPIE Vol. 1908 (1993) / 173</i>	Published: 1993	Publication	Anticipates
19.	Larcher	U.S. Patent No. 4,790,564, Larcher <i>et al.</i> , “Automatic Fingerprint Identification System Including Processes and Apparatus for Matching Fingerprints”	Issued: December 13, 1998	Patent	Anticipates
20.	Pfeiffer	Pfeiffer <i>et al.</i> “Automatic Audio Content Analysis,” ACM Multimedia 96, Boston, MA, USA	Published: 1996	Publication	Anticipates
21.	Ratha	Ratha <i>et al.</i> “A Real-Time Matching System for Large Fingerprint Databases,” IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 18, No. 8	Published: August 1996	Publication	Anticipates
22.	Blum II	“Audio Databases with Content-Based Retrieval”	Published: 1997	Publication	Anticipates
23.	Jain 1995	Jain <i>et al.</i> “Image Retrieval using Color and Shape” (1995)	Published: 1995	Publication	Anticipates
24.	Kenyon	US Patent No. 4,843,562 to Kenyon “Broadcast information classification system and method”	Issued: June 27, 1989	Patent	Anticipates
25.	Boles	US Patent No. 5,019,899 to Boles “Electronic data encoding and recognition system”	Issued: May 28, 1991	Patent	Anticipates
26.	Lamb	U.S. Patent No. 5,437,050 to Lamb <i>et al.</i> “Method and Apparatus for Recognizing Broadcast Information Using Multi-Frequency Magnitude Detection”	Issued: July 25, 1995	Patent	Anticipates
27.	Hull	U.S. Patent No. 5,465,353A, Hull <i>et al.</i> “Image matching and retrieval by multi-access redundant hashing”	Issued: November 7, 1995	Patent	Anticipates

No.	Reference Name/Inventor/ Author	Reference/System Description	Date	Ref. Type	Basis of Invalidity
28.	Shimura	U.S. Patent No. 5,644,765A, Shimura <i>et al.</i> "Image retrieving method and apparatus that calculates characteristics-amounts of data correlated with and identifying an image "	Issued: July 1, 1997	Patent	Anticipates
29.	Wang	U.S. Patent No. 5,802,361A, Wang <i>et al.</i> "Method and system for searching graphic images and videos"	Issued: September 1, 1998	Patent	Anticipates
30.	Sezan	U.S. Patent No. 6,285,788B1, Sezan <i>et al.</i> "Method for fast return of abstracted images from a digital image database"	Issued: September 4, 2001	Patent	Anticipates
31.	Wells	U.S. Patent No. 8,326,584B1, Wells <i>et al.</i> "Music searching methods based on human perception"	Issued: December 4, 2012	Patent	Anticipates
32.	FBI Specification	Department of Justice Federal Bureau of Investigation, Criminal Justice Information Services (CJIS), Electronic Fingerprint Transmission Specification	Published: January 29, 1999	Publication	Anticipates
33.	Ghias	Ghias <i>et al.</i> , "Query by Humming: Musical Information Retrieval in an Audio Database", ACM Multimedia 95 - Electronic Proceedings	Published: November 1995	Publication	Anticipates
34.	Moon	U.S. Patent No. 3,919,479 to Moon <i>et al.</i> , "Broadcast Signal identification system"	Issued: November 11, 1975	Patent	Anticipates
35.	AFIS87	Wilson <i>et al.</i> , "Automated Fingerprint Identification Systems: Technology and Policy Issues", U.S. Department of Justice, Bureau of Justice Statistics	Published: April 1987	Publication	Anticipates
36.	Jain 1996	Jain <i>et al.</i> , "On-line Fingerprint Verification"	Published: 1996	Publication	Anticipates
37.	Riganati	U.S. Patent No. 4,135,147 to Riganati <i>et al.</i> , "Minutiae pattern matcher"	Issued: January 16, 1979	Patent	Anticipates
38.	Jain Biometrics	Jain, et al., "Biometrics: Personal Identification in Networked Society" (1st ed. 1999)	Published: 1999	Publication	Anticipates
39.	Taycher	L. Taycher et al., "Image digestion and relevance feedback in the ImageRover WWW search engine," Proc. 2nd Int. Conf. on Visual Information Systems, San Diego, pp 85-94	Published: December 1997	Publication	Anticipates

No.	Reference Name/Inventor/ Author	Reference/System Description	Date	Ref. Type	Basis of Invalidity
40.	Rui	U.S. Patent No. 6,859,802 to Rui, "Image Retrieval Based on Relevance Feedback"	Issued: February 22, 2005	Patent	Anticipates
41.	Kuperstein	U.S. Patent No. 6,128,398 to Kuperstein et al., "System, Method and Application for the Recognition, Verification, and Similarity Ranking of Facial or Other Object Patterns"	Issued: October 3, 2000	Patent	Anticipates
42.	Choi	U.S. Patent No. 6,301,375, Hwan-Soo Choi, "Apparatus and Method for Identifying Individuals Through Their Subcutaneous Vein Patterns and Integrated System Using said Apparatus and Method"	Issued: October 9, 2010	Patent	Anticipates
43.	Brin	Brin et al. "Copy Detection Mechanisms for Digital Documents". ACM Sigmod Record. Vol. 24. No. 2.	Published: 1995	Publication	Anticipates
44.	Heintze	Heintze, Nevin, "Scalable Document Fingerprinting." 1996 Usenix Workshop on Electronic Commerce. Vol. 3 No. 1.	Published: 1996	Publication	Anticipates
45.	Manber	Manber, Ubi, "Finding Similar Files in a Large File System." Usenix Winter. Vol. 94.	Published: 1994	Publication	Anticipates
46.	Advances	Advances in Fingerprint Technology, Eds. H. Lee & R.E. Gaensslen (Elsevier 1991)	Published: 1991	Publication	Anticipates
47.	Flom	U.S. Patent No. 4,641,349 to Flom et al., "Iris recognition system"	Issued: February 3, 1987	Patent	Anticipates
48.	Daugman	U.S. Patent No. 5,291,560 to Daugman, "Biometric personal identification system based on iris analysis"	Issued: March 1, 1994	Patent	Anticipates
49.	Charlton	"Modelling Agents in C++CL for Content-Based Image Retrieval"	Published: 1996	Publication	Anticipates
50.	Cross	"Thermographic Imaging of the Subcutaneous Vascular Network of the Back of the Hand for Biometric Information", Proceedings the Institute of Electrical and Electronics Engineers, 29 th ANNUAL 1995 International Carnahan Conference on Security Technology, October 18-20, 1995, pp. 20-35	Published: October 18-20, 1995	Publication	Anticipates
51.	RCS/Media Monitors Prior Art System	RCS/Media Monitors Prior Art System consists of the broadcast monitoring techniques used by RCS before 1999, including "The Listener," "AirCheck," "AirCheck NT," "AirCheck NT/Music USA," "Music Base," which describe a monitoring system later rebranded and redesigned as "Media Monitors" and "Media	First public use 1991, on sale from at least 1992	System	Anticipates

No.	Reference Name/Inventor/ Author	Reference/System Description	Date	Ref. Type	Basis of Invalidity
		Base.” The system was developed, used, and sold by Radio Computing Services, Inc. (“RCS,” now owned by Clear Channel Management Services, Inc.) The system is further described by Lamb (see No. 26 above).			
52.	eTantrum	eTantrum Music ID Service / Songprint system	Known or used by at least Sept. 6, 2000	System	Anticipates
53.	Foote	Jonathan Foote TreeQ Music Retrieval	Known or used by at least Oct. 6, 1997	System	Anticipates
54.	MusicBrainz / Relatable	MusicBrainz / Relatable System	Known or used by at least Sept. 5, 2000	System	Anticipates
55.	3M Cogent Prior Art System	3M Cogent Prior Art Products	At least as early as 1993	System	Anticipates
56.	Blum, Wold, Keislar, Wheaton	CBR	At least as early as 1995	System	Anticipates
57.	Blum, Wold, Keislar, Wheaton	Digital Generations	At least as early as June 1994	System	Anticipates
58.	Blum, Wold, Keislar, Wheaton	SoundFisher	At least as early as April 1996	System	Anticipates
59.	Ikezoye, Schrempp	Clango - Amadeus	At least as early as August 1999	System	Anticipates
60.	Blum, Wold, Keislar, Wheaton	EAR Iambus	At least as early as March 1997	System	Anticipates

No.	Reference Name/Inventor/ Author	Reference/System Description	Date	Ref. Type	Basis of Invalidity
61.	Blum, Wold, Keislar, Wheaton	Conti	At least as early as April 1998	System	Anticipates
62.	Blum, Wold, Keislar, Wheaton	Illustra-Informix	At least as early as March 1997	System	Anticipates
63.	Ikezoye	U.S. Patent No. 6,834,308 to Ikezoye <i>et al.</i> , “Method and Apparatus for Identifying Media Content Presented on a Media Playing Device”	Filed: February 17, 2000; Issued: December 21, 2004	Patent	Anticipates
64.	Lo	U.S. Patent No. 5,960,101 to Lo <i>et al.</i> , “Expert Matcher Fingerprint System”	Issued: September 28, 1999	Patent	Anticipates
65.	Kim	U.S. Patent No. 6,247,813 to Kim <i>et al.</i> , “Iris Identification and Method of Identifying a Person through Iris Recognition”	Filed: Nov. 4, 1999; Issued Jun. 19, 2001	Patent	Anticipates
66.	FaceVACS	FaceVACS Prior Art System	At least as early as 1997	System	Anticipates
67.	Harkless	U.S. Patent No. 6,356,649, to Harkless <i>et al.</i> , “Systems & Methods with Identity Verification by Streamlined Comparison & Interpretation of Fingerprints and the Like”	Issued March 12, 2002	Patent	Anticipates
68.	Thebaud	U.S. Patent No. 5,909,501, to Lawrence R. Thebaud, “Systems and Methods with Identity Verification by Comparison and Interpretation of Skin Patterns Such as Fingerprints”	Issued June 1, 1999	Patent	Anticipates
69.	Cambier	U.S. Patent No. 6,532,298, to Cambier, <i>et al.</i> , “Portable Authentication Device and Method Using Iris Patterns”	Issued March 11, 2003	Patent	Anticipates
70.	Atick	U.S. Patent No. 6,111,517, to Atick, <i>et al.</i> , “Continuous Video Monitoring Using Face Recognition for Access Control”	Issued August 29, 2000	Patent	Anticipates
71.	Driscoll	U.S. Patent No. 5,067,162, to Driscoll, Jr., <i>et al.</i> , “Method and Apparatus for Verifying Identity Using Image Correlation”	Issued November	Patent	Anticipates

No.	Reference Name/Inventor/ Author	Reference/System Description	Date	Ref. Type	Basis of Invalidity
			19, 1991		
72.	FBI Fingerprinting Systems	FBI Fingerprinting Systems as they existed prior to the priority date of the patents-in-suit.	1991-1998	System	Anticipates
73.	Visionics Corporation	FaceIt Facial Recognition System, as demonstrated by, <i>e.g.</i> , the FaceIt Developer Kit Version 2.5 User Documentation, the accompanying FaceIt DB demonstration program, and FaceIt PC 3.0.	At least as early as January 1999	System	Anticipates
74.	Identix Inc. / Identicator Technology	Identix Fingerprint Products, as demonstrated by, <i>e.g.</i> , BioEngine Version 2.5 Software Development Kit, Identicator Technology's Fingerprint Software Development Kit Version 2.5 Programmer's Guide, and BioLogon 2.0 Client for Windows.	At least as early as June 30, 1999	System	Anticipates
75.	IriScan Inc. / Sensor Inc.	Sensar / IriScan Iris Recognition Products, as demonstrated by, <i>e.g.</i> , the IrisScan Software Development Kit, and the IriScan 2100.	At least as early as 1999	System	Anticipates
76.	Rising, III	U.S. Patent No. 6,445,834 to Rising, III, "Modular Image Query System"	Issued: Sep. 3, 2002	Patent	Renders obvious
77.	Logan	U.S. Patent No. 6,088,455 to Logan <i>et al.</i> , "Methods and Apparatus for Selectively Reproducing Segments of Broadcast Programming"	Issued: July 11, 2000	Patent	Renders obvious
78.	Saito	U.S. Patent No. 6,980,672 to Saito <i>et al.</i> , "Lock and Switch Using Pressure-Type Fingerprint Sensor"	Filed: December 26, 1997; Issued: December 27, 2005	Patent	Renders obvious
79.	Chiu	U.S. Patent No. 6,076,111 to Chiu <i>et al.</i> , "Methods and Apparatuses for Transferring Data Between Data Processing Systems Which Transfer a Representation of the Data Before Transferring the Data"	Issued: June 13, 2000	Patent	Renders obvious
80.	Musgrave	U.S. Patent No. 6,202,151 to Musgrave <i>et al.</i> , System and method for authenticating electronic transactions using biometric certificates	Filed: December 31, 1997 Issued:	Patent	Renders obvious

No.	Reference Name/Inventor/ Author	Reference/System Description	Date	Ref. Type	Basis of Invalidity
			March 13, 2001		
81.	Squilla	U.S. Patent No. 5,898,779 to Squilla et al, "Photographic System with Selected Area Image Authentication"	Issued: April 27, 1999	Patent	Renders obvious
82.	Nelson	U.S. Patent No. 6,243,713 to Nelson et al, "Multimedia Document Retrieval by Application of Multimedia Queries to a Unified Index of Multimedia Data for a Plurality of Multimedia Data Types"	Filed: August 24, 1998 Issued: June 5, 2001	Patent	Renders obvious
83.	Thomas	U.S. Patent No. 4,739,398 to Thomas et al, "Method, Apparatus and System for Recognizing Broadcast Segments"	Issued: April 19, 1988	Patent	Renders obvious
84.	Tsujimura	U.S. Patent No. 5,586,197, Tsujimura <i>et al.</i> , "Image Searching Method and Apparatus Thereof Using Color Information of an Input Image"	Issued: December 17, 1996	Patent	Renders obvious
85.	Ross	U.S. Patent No. 6,195,447, Ross, "System and Method for Fingerprint Data Verification"	Issued: February 27, 2001	Patent	Renders obvious
86.	Krishnamachari	U.S. Patent No. 6,721,449, Krishnamachari, "Color quantization and Similarity Measure for Content Based Image Retrieval"	Issued: April 13, 2004	Patent	Renders obvious
87.	Padgett	WO 00/07330, Padgett, <i>et al.</i> , "Digital Signature Providing Non-Repudiation Based on Biological Indicia"	Filed: February 10, 2000	Publication	Renders obvious
88.	Pentland	Pentland <i>et al.</i> "Photobook: Content-Based Manipulation of Image Databases," International Journal of Computer Vision 18(3), 233-254	Published: 1996	Publication	Renders obvious
89.	Oh	Oh et al., "Content-based retrieval system for image using human face information", SPIE, vol. 3972.0277-786X, pp. 12-19	Published: January 2000	Publication	Renders obvious
90.	Levy	U.S. Patent No. 6,505,160 to Levy <i>et al.</i> , "Connected audio and other media objects	Filed March 2, 2000; Issued: January 7, 2003	Patent	Renders obvious

No.	Reference Name/Inventor/ Author	Reference/System Description	Date	Ref. Type	Basis of Invalidity
91.	DiMaria	U.S. Patent No. 5,959,541 DiMaria <i>et al.</i> , “Biometric Time and Attendance System with Epidermal Topographical Updating Capability”	Issued: September 28, 1999	Patent	Renders obvious
92.	Gokcebay	U.S. Patent No. 5,337,043 to Gokcebay, “Access Control System with Mechanical Keys Which Store Data”	Issued: August 9, 1994	Patent	Renders obvious
93.	Hershtik	U.S. Patent No. 5,790,236 to Hershtik <i>et al.</i> , “Movie Processing System”	Issued: August 4, 1998	Patent	Renders obvious
94.	Hamid	U.S. Patent No. 6,072,891 to Hamid <i>et al.</i> , “Method of Gathering Biometric Information”	Issued: June 6, 2000	Patent	Renders obvious
95.	Woudstra	Woudstra et al., “Modeling and Retrieving Audiovisual Information - A Soccer Video Retrieval System,” in Advances in Multimedia Information Systems: 4th International Workshop, MIS ‘98 (September 24-26, 1998, Proceedings)	Published: September 24-26, 1998	Publication	Renders obvious
96.	Chuah	Chuah et al., “Sketching, Searching, and Customizing Visualizations: A Content-based Approach to Design Retrieval,” in “Intelligent Multimedia Information Retrieval”	Published: 1995	Publication	Renders obvious
97.	Aberer	Aberer et al., “Multimedia Database Management Systems,” in “Handbook of Multimedia Computing” (September 28, 1998 and 1999)	Published: September 28, 1998 and 1999	Publication	Renders obvious
98.	Farber I	U.S. Patent No. 5,978,791 to Farber <i>et al.</i> , Data processing system using substantially unique identifiers to identify data items, whereby identical data items have the same identifiers	April 11, 1995 priority date; Issued: November 2, 1999	Patent	Renders obvious
99.	Farber II	U.S. Patent No. 6,415,280 to Farber <i>et al.</i> , “Identifying and requesting data in network using identifiers which are based on contents of data”	April 11, 1995 priority date; Issued: July 2, 2002	Patent	Renders obvious

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100.	Farber III	U.S. Patent No. 6,928,442 to Farber et al., “Enforcement and policing of licensed content using content-based identifiers”	Issued: August 9, 2005	Patent	Renders obvious
101.	Multimedia DBMS	“Multimedia Database Management Systems,” in “Handbook of Multimedia Computing” (September 28, 1998 and 1999)	Published: September 28, 1998 and 1999	Publication	Renders obvious
102.	Advances in Multimedia Information Systems	“Advances in Multimedia Information Systems: 4th International Workshop,” MIS ‘98 (September 24-26, 1998, Proceedings)	Published: September 24-26, 1998	Publication	Renders obvious
103.	Handbook	“Handbook of Multimedia Computing” (September 28, 1998 and 1999)	Published: September 28, 1998 and 1999	Publication	Renders obvious
104.	Intelligent Multimedia Information Retrieval	“Intelligent Multimedia Information Retrieval” (1995, 1997)	Published: 1995	Publication	Renders obvious
105.	Armintor et al.	“NHSE Distribution of HPCC Software: Legal Issues and Technological Options”	Published: September 28, 1997	Publication	Renders obvious
106.	Adar et al.	U.S. Patent No. 5,802,515 to Adar et al., “Randomized Query Generation and Document Relevance Ranking for Robust Information Retrieval from a Database.”	Issued: September 1, 1998	Patent	Renders obvious
107.	Schneider et al.	“A Robust Content Based Digital Signature for Image Authentication”	Published: 1996	Publication	Renders obvious
108.	McAuliffe et al	U.S. Patent No. 5,838,790 to McAuliffe et al, “Advertisement Authentication System in Which Advertisements Are Downloaded For Off-Line Display.”	Issued: November 17, 1998	Patent	Renders obvious
109.	Hill	“A Perspective: The Role of Identifiers in Managing and Protecting Intellectual Property in the Digital Age,” in Proceedings of the IEEE, Vol. 87, No. 7.	Published: July 1999	Publication	Renders obvious
110.	Gilbey	“MP3 and the Infinite Digital Jukebox: a Step-by-Step Guide to Accessing and Downloading CD-Quality Music from the Internet,”	Published: June 2000	Publication	Renders obvious

No.	Reference Name/Inventor/ Author	Reference/System Description	Date	Ref. Type	Basis of Invalidity
		(June 2000)			
111.	Lee et al	“Signature File Methods for Indexing Object-Oriented Database Systems,” in Proceedings of the 2 nd International Computer Science Conference (December 1992)	Published: December 1992	Publication	Renders obvious
112.	Tognazzini	U.S. Patent No. 5,894,119 to Tognazzini, “Device for Enabling Listeners to Preview Music Recordings.”	Issued: April 13, 1999	Patent	Renders obvious
113.	Iggulden	WO 98/20675, Iggulden “Method and Apparatus for Automatically Identifying and Selectively Altering Segments of a Television Broadcast Signal in Real-Time”	Published: May 14, 1998	Patent	Renders obvious
114.	Rhoads	U.S. Patent No. 6,430,302 to Rhoads “Steganographically Encoding a First Image in Accordance with a Second Image”	Filed by at least May 8, 1995; Issued: August 6, 2002	Patent	Renders obvious
115.	Swonger	U.S. Patent No. 4,210,899 to Swonger, <i>et al.</i> , “Fingerprint-Based Access Control and Identification Apparatus”	Issued: July 1, 1980	Patent	Renders obvious
116.	Meadows	U.S. Patent No. 5,869,822 to Meadows <i>et al.</i> , “Automated Fingerprint Identification System”	Issued: February 9, 1999	Patent	Renders obvious
117.	3M Cogent and Information and Privacy Commissioner/ Ontario	Readme file with API description that was implemented in system described in "Privacy and Biometrics: An oxymoron or time to take a 2nd Look?"	At least as early as 1998	Publication	Renders Obvious
118.	3M Cogent	RFP Proposal to City of Winnipeg	At least as early as 1998	System	Renders Obvious
119.	3M Cogent and Precision Design	Preliminary Offer for General Directorate of Turkish National Police	At least as early as 1995	System	Renders Obvious
120.	3M Cogent	Part F to National Automated Fingerprint Identification System (NAFIS) Replacement Response Component	At least as early as July, 1999	System	Renders Obvious

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121.	Troyanker	U.S. Patent No. 6,563,959 to Troyanker, "Perceptual Similarity Retrieval Method"	Filed: July 30, 1999; Issued: May 13, 2003	Patent	Renders Obvious
122.	Hershtik	WO 99/30488 to Hershtik, "Apparatus and Methods for Manipulating Sequences of Images"	Publication: June 17, 1999	Publication	Renders Obvious
123.	Wang Provisional	U.S. Provisional Patent Application Ser. No. 60/222,023, "Method and Apparatus for Recognizing Sound and Music Signals in High Noise and Distortion", to which the application for U.S. Patent No. 6,990,453 to Wang et al. claimed priority	Filed: July 31, 2000	Publication	Renders Obvious